UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: Geologic Formations: Surface - Duchesne River, Bottom - Mesaverde
Tar sand 1630-1730'

8-18-86 added to septic
(No File) Bul. 50

DATE FILED Prior OGCC

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. X INDIAN

DRILLING APPROVED: --

SPUDDED IN:

COMPLETED:

INITIAL PRODUCTION:

GRAVITY A. P. I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH: 2,222

WELL ELEVATION: 6,275

DATE ABANDONED: 6-11-42

FIELD OR DISTRICT: ~~Cottonwood Springs~~ 3/86 Wildcat

COUNTY: Uintah API # 43-047-20372

WELL NO. UNION OIL CO. # 1

LOCATION: FT. FROM (N) (S) LINE, FT. FROM (E) (W) LINE. NE SE QUARTER - QUARTER SEC. 21

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				4S	20E	21	UNION OIL COMPANY

UNION OIL COMPANY-Government No. 1

43-047-20372

Cottonwood Springs Bow, Uintah County, Utah
Location: 1,650' from South line and 330' from East line of Sec. 21, T. 4S, R. 20E, S.L.M.
Elevation: 6,275
Spud: April 19, 1942. Abandoned: June 12, 1942
T.D. 2,222 ft.
Casing record: 8-5/8--140 ft.
5-1/2--2,082 ft.

Well log Assembled from Examination of Drill Cuttings by Max L. Krueger

Feet	Formation
0-26	Tan sandy clay and occasional boulders.
26-70	Clay and boulders.
70-105	Hard boulder conglomerate.
105-120	Hard quartz sand.
120-130	Hard sand with limestone boulder fragments.
130-160	Hard boulder conglomerate.
160-200	Sandstone with occasional boulders.
200-215	Pink sandy clay with scattered boulders.
215-225	Gray and white sandstone.
225-245	Gray and maroon clay and sandy silt with a few boulders.
245-275	Gray clay, sandy silt and silty sand.
275-280	Medium grained sandstone.
280-315	Clay, sandy white to tawny
315-355	Clayey silt and sandy silt, maroon to pink to tawny, gypsiferous.
355-365	Clayey sandstone.
365-430	Soft sandy clay decreasing in sandiness downward.
430-435	Sandstone, tan.
435-460	Sandy gray clay.
460-470	Sandstone with some sandy clay and occasional boulders, pyrite crystals set in limestone fragments.
470-535	Gypsiferous clay, sandy red and pink.
535-550	Sandstone.
550-565	Sandy clays and sandy silts, calcareous to gypsiferous. Range in color from pink and red to maroon to white, light grey, tans, and tawny colors. The maroon intervals are more clayey and softer while the grey colored sediments are much sandier.
565-575	Sand, tan, fairly hard.
575-620	Variegated clays, silts and sand.
620-640	Sandstone with admixed clays and sandy silts on occasion.
640-665	Tan sandstone and occasional limestone boulders. Some admixed sandy silts and clay fragments.
665-675	Ditto with a few more boulders.
675-700	Sandstone and variegated sandstone and silt fragments and a few boulders.

Feet	Formation
700-730	Grey and white, maroon sandy clay and silt.
730-760	Reddish clays and sandy silts and some admixed clayey argillaceous material.
760-795	Sandstone with occasional boulders and prominent limestone boulder fragments between 790'-and 795'.
795-820	Maroon and grey and cream sandy siltstone and claystone with occasional boulder fragments.
820-870	Vari-colored clays, sandy silts, silty sands containing admixed boulders.
870-900	Sandstone, with admixed vari-colored clays, silts and scattered boulders.
900-915	Clay and silt, very sandy. Maroon, grey, white and cream colored.
915-940	Vari-colored clay and silt, pinkish cast.
940-970	Sandstone with grey and white claystone or siltstone admixed.
970-1015	Sandy claystone or siltstone, vari-colored with limestone boulders.
1015-1055	Sandstone. Some admixed vari-colored sandy clay and occasional fragments of crystalline limestone.
1055-1085	Sandstone and vari-colored sandy clay and sandy silt.
1085-1165	Claystone or siltstone, very sandy, occasional limestone fragments.
1165-1205	Sandstone with occasional boulders.
1205-1230	Basal Duchesne River conglomerate. Limestone and quartzite boulders set in a sandy matrix. Very hard.
1230	Base Duchesne River formation--to Uinta formation.
1230-1250	Vari-colored claystone with occasional limestone boulders.
1250-1275	Sandstone with admixed vari-colored claystone and siltstone.
1275-1290	Sandstone and vari-colored siltstone and claystone.
1290-1345	Sandstone with intercalations of clay and silt. Prominent pyrite crystals noted along with scattered boulders.
1345-1383.5	Vari-colored sandy claystone and scattered boulders.
1383.5-1393.5	Vari-colored sandy claystone and siltstone with maroon, drab brown and light blue-grey silts and sandy silt, fragments predominating.
1393.5-1400	Vari-colored clays and silts.
1400-1410	Sandstone with admixed vari-colored clays and silts.
1410-1425	Vari-colored clays and sandy silts with very occasional boulders.
1425-1440	Predominantly sandstone with admixed vari-colored clays and sandy silts. Blue-grey silts predominating.
1440-1455	Red, blue, tan and dirty brown clays and silts and sandy silts.
1455-1470	Sandstone with admixed vari-colored clays and silts.
1470-1500	Predominantly vari-colored clays and silts with some admixed sandstone. First dark grey chert grains appear at 1,490'.
1500-1530	Predominantly sandstone with admixed vari-colored clays and silts. No cuts.
1530-1585	Vari-colored clays and silts and some blue-grey chert fragments. First prominent appearance of grey chert material at 1,530'. This point also marks the appearance of a few tar coated limestone grains. The samples give a faint cut in carbon tetrachloride between 1,530' and 1,540'. No cuts from 1,540' to 1,585'.

Feet	Formation
1585-1630	Sandstone with some admixed chert conglomerate and vari-colored clays. Pyrite grains noticeable. No cut to 1,615' and a very faint cut between 1,615' and 1,630'. At 1,630' the first time that a considerable admixture of tar stainedsand grains showed on the ditch.
1630-1730	Tan sand with some tar sand. All samples down to 1,700' showing fair cut. Some vari-colored silt fragments.
1730-1755	Hard grey chert conglomerate and sand.
1755-1800	Grey chert and limestone boulder conglomerate set in a sandy matrix. Faint oil cut 1,755' to 1,770'. Good cut 1,770' to 1,800'.
1800-1850	Sandstone, tar sandstone and scattered boulders. Faint cuts throughout.
1850-1908	Black tar sand and grey chert pebble conglomerate. Cored 38' of tar sand and gas burned in the barrel at 1,885'.
1908-1940	Sandstone and chert pebble conglomerate. All samples gave good cuts so it is probably tar saturated.
1940-1968	Sandstone with some admixed vari-colored clays. Samples give cut throughout.
1968-2035	Conglomerate set in a sandstone matrix and some admixed vari-colored argillaceous material.
2035	Approximate top of the Cretaceous-Mesaverde sands and shales.
2035-2045	Sandstone?
2045-2093	Grey Cretaceous shales, lignitic shales and some thin streaks of coal with shiny lustre. Irregularly bedded.
2093-2218	Mesaverde oil sands, light brown, medium grained, fairly soft, massive. Give excellent cut. No odor.

T.D. 2,222 ft.

Union Oil

NESE 21-4S-20E

Gov't #1

5

not in file

Uintah

Utah

UNION OIL COMPANY-Government No. 1

Cottonwood Springs Bow, Uintah County, Utah
Location: 1,650' from South line and 330' from East line of Sec. 21, T. 4S, R. 20E, S.L.M.
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Casing record: 8-5/8--140 ft.
5-1/2--2,082 ft.

Well log Assembled from Examination of Drill Cuttings by Max L. Krueger

Feet	Formation
0-26	Tan sandy clay and occasional boulders.
26-70	Clay and boulders.
70-105	Hard boulder conglomerate.
105-120	Hard quartz sand.
120-130	Hard sand with limestone boulder fragments.
130-160	Hard boulder conglomerate.
160-200	Sandstone with occasional boulders.
200-215	Pink sandy clay with scattered boulders.
215-225	Gray and white sandstone.
225-245	Gray and maroon clay and sandy silt with a few boulders.
245-275	Gray clay, sandy silt and silty sand.
275-280	Medium grained sandstone.
280-315	Clay, sandy white to tawny
315-355	Clayey silt and sandy silt, maroon to pink to tawny, gypsiferous.
355-365	Clayey sandstone.
365-430	Soft sandy clay decreasing in sandiness downward.
430-435	Sandstone, tan.
435-460	Sandy gray clay.
460-470	Sandstone with some sandy clay and occasional boulders, pyrite crystals set in limestone fragments.
470-535	Gypsiferous clay, sandy red and pink.
535-550	Sandstone.
550-565	Sandy clays and sandy silts, calcareous to gypsiferous. Range in color from pink and red to maroon to white, light grey, tans, and tawny colors. The maroon intervals are more clayey and softer while the grey colored sediments are much sandier.
565-575	Sand, tan, fairly hard.
575-620	Variegated clays, silts and sand.
620-640	Sandstone with admixed clays and sandy silts on occasion.
640-665	Tan sandstone and occasional limestone boulders. Some admixed sandy silts and clay fragments.
665-675	Ditto with a few more boulders.
675-700	Sandstone and variegated sandstone and silt fragments and a few boulders.

Feet	Formation
700-730	Grey and white, maroon sandy clay and silt.
730-760	Reddish clays and sandy silts and some admixed clayey argillaceous material.
760-795	Sandstone with occasional boulders and prominent limestone boulder fragments between 790'-and 795'.
795-820	Maroon and grey and cream sandy siltstone and claystone with occasional boulder fragments.
820-870	Vari-colored clays, sandy silts, silty sands containing admixed boulders.
870-900	Sandstone, with admixed vari-colored clays, silts and scattered boulders.
900-915	Clay and silt, very sandy. Maroon, grey, white and cream colored.
915-940	Vari-colored clay and silt, pinkish cast.
940-970	Sandstone with grey and white claystone or siltstone admixed.
970-1015	Sandy claystone or siltstone, vari-colored with limestone boulders.
1015-1055	Sandstone. Some admixed vari-colored sandy clay and occasional fragments of crystalline limestone.
1055-1085	Sandstone and vari-colored sandy clay and sandy silt.
1085-1165	Claystone or siltstone, very sandy, occasional limestone fragments.
1165-1205	Sandstone with occasional boulders.
1205-1230	Basal Duchesne River conglomerate. Limestone and quartzite boulders set in a sandy matrix. Very hard.
1230	Base Duchesne River formation--to Uinta formation.
1230-1250	Vari-colored claystone with occasional limestone boulders.
1250-1275	Sandstone with admixed vari-colored claystone and siltstone.
1275-1290	Sandstone and vari-colored siltstone and claystone.
1290-1345	Sandstone with intercalations of clay and silt. Prominent pyrite crystals noted along with scattered boulders.
1345-1383.5	Vari-colored sandy claystone and scattered boulders.
1383.5-1393.5	Vari-colored sandy claystone and siltstone with maroon, drab brown and light blue-grey silts and sandy silt, fragments predominating.
1393.5-1400	Vari-colored clays and silts.
1400-1410	Sandstone with admixed vari-colored clays and silts.
1410-1425	Vari-colored clays and sandy silts with very occasional boulders.
1425-1440	Predominantly sandstone with admixed vari-colored clays and sandy silts. Blue-grey silts predominating.
1440-1455	Red, blue, tan and dirty brown clays and silts and sandy silts.
1455-1470	Sandstone with admixed vari-colored clays and silts.
1470-1500	Predominantly vari-colored clays and silts with some admixed sandstone. First dark grey chert grains appear at 1,490'.
1500-1530	Predominantly sandstone with admixed vari-colored clays and silts. No cuts.
1530-1585	Vari-colored clays and silts and some blue-grey chert fragments. First prominent appearance of grey chert material at 1,530'. This point also marks the appearance of a few tar coated limestone grains. The samples give a faint cut in carbon tetrachloride between 1,530' and 1,540'. No cuts from 1,540' to 1,585'.

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1630-1730	Tan sand with some tar sand. All samples down to 1,700' showing fair cut. Some vari-colored silt fragments.
1730-1755	Hard grey chert conglomerate and sand.
1755-1800	Grey chert and limestone boulder conglomerate set in a sandy matrix. Faint oil cut 1,755' to 1,770'. Good cut 1,770' to 1,800'.
1800-1850	Sandstone, tar sandstone and scattered boulders. Faint cuts throughout.
1850-1908	Black tar sand and grey chert pebble conglomerate. Cored 38' of tar sand and gas burned in the barrel at 1,885'.
1908-1940	Sandstone and chert pebble conglomerate. All samples gave good cuts so it is probably tar saturated.
1940-1968	Sandstone with some admixed vari-colored clays. Samples give cut throughout.
1968-2035	Conglomerate set in a sandstone matrix and some admixed vari-colored argillaceous material.
2035	Approximate top of the Cretaceous-Mesaverde sands and shales.
2035-2045	Sandstone?
2045-2093	Grey Cretaceous shales, lignitic shales and some thin streaks of coal with shiny lustre. Irregularly bedded.
2093-2218	Mesaverde oil sands, light brown, medium grained, fairly soft, massive. Give excellent cut. No odor.

T.D. 2,222 ft.

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675-700	Sandstone and variegated sandstone and silt fragments and a few boulders.

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760-795	Sandstone with occasional boulders and prominent limestone boulder fragments between 790'-and 795'.
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1425-1440	Predominantly sandstone with admixed vari-colored clays and sandy silts. Blue-grey silts predominating.
1440-1455	Red, blue, tan and dirty brown clays and silts and sandy silts.
1455-1470	Sandstone with admixed vari-colored clays and silts.
1470-1500	Predominantly vari-colored clays and silts with some admixed sandstone. First dark grey chert grains appear at 1,490'.
1500-1530	Predominantly sandstone with admixed vari-colored clays and silts. No cuts.
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T.D. 2,222 ft.

4.1.6.24

[redacted]

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Uintah Co.
Utah

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Feet	Formation
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1345-1383.5	Vari-colored sandy claystone and scattered boulders.
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1410-1425	Vari-colored clays and sandy silts with very occasional boulders.
1425-1440	Predominantly sandstone with admixed vari-colored clays and sandy silts. Blue-grey silts predominating.
1440-1455	Red, blue, tan and dirty brown clays and silts and sandy silts.
1455-1470	Sandstone with admixed vari-colored clays and silts.
1470-1500	Predominantly vari-colored clays and silts with some admixed sandstone. First dark grey chert grains appear at 1,490'.
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2035	Approximate top of the Cretaceous-Mesaverde sands and shales.
2035-2045	Sandstone?
2045-2093	Grey Cretaceous shales, lignitic shales and some thin streaks of coal with shiny lustre. Irregularly bedded.
2093-2218	Mesaverde oil sands, light brown, medium grained, fairly soft, massive. Give excellent cut. No odor.
T.D. 2,222 ft.	

STATE	Utah
COMPANY	Union Oil Co.
WELL NO.	Govmnt. No. 1
COUNTY	Uintah
FARM	
BLOCK	
SURVEY	43-047-20372
SEC.	21
T.	4S
R.	20E
TOTAL DEPTH	2,222'
COMMENCED	Apr. 19, 1942
COMPLETED	June 12, 1942
REMARKS	
ALTITUDE	6,275'
PRODUCTION	

Location: 1650', 330'

CASING RECORD

8-5/8 — 140'
5-1/2 — 2,082'

SHOT	QUARTS	BETWEEN

FORM 186 - In stock and for sale by Ross-Martin Co., Tulsa

Depth	Description
0	Tan sdy cly & occ. bldrs.
26	Cly. & bldrs.
70	Hd. bldr. cong.
105	Hd. qtz. sd.
120	Hd. sd/ls bldr frags
130	Hd bldr cong
160	Ss. / occ bldrs
200	Pk sdy cly / scat bldrs
215	Gy & wh ss
225	Gy & mar cly & sdy slt / a few bldrs
245	Gy cly, sdy slt & slty sd.
275	m gr ss
280	cly, sdy wh to tawny
315	Gy slt & sdy slt, mar to pk to tawny, gyp.
355	Cly ss
365	sft sdy cly decr in sandyness downward
430	Ss, tan
435	Sdy gy cly
460	Ss/some sdy cly & occ bldrs, pyr xls set in ls frags.
470	Gyp cly, sdy red & pk
500–535	Ss
535–550	Sdy clys & sdy slts, calc to gyp. Range in col from pk & red to mar to wh, lt gry, tans & tawny cols. The mar intvs are more cly & sfter while the gry coled seds are much sdyer.
565	Sd, tan, fairly hd.
575	Vgt clys, slts & sd
620	Ss / admixed clys & sdy slts on occasion.
640	Tan ss & occ ls bldrs. Some admixed sdy slts & cly frags.
665	Do / a few more bldrs
675	Ss & vgt ss & slt frag & a few bldrs
700	Gy & wh, mar sdy cly & slt.
730	Reddish clys & sdy slts & some admixed cly arg mat.
760	Ss / occ bldrs & prom ls. bldr frags between 790' and 795'
795	Mar & gy & crm sdy sltst & clyst / occ bldr frags
820	Vcol clys, sdy slts, slty sd containing admixed bldrs.
870	Ss, / admixed vcol clys, slts, & scat bldrs
900	Cly & slt, v sdy. Mar, gy, wh & crm col
915	Vcol cly & slt, pkish cast
940	Ss/gy & wh clyst or sltst admixed
970	Sdy clyst or sltst, vcol / ls bldrs
1015	Ss. Some admixed vcol sdy cly & occ frag of xl ls
1055	Ss & vcol sdy cly & sdy slt
1085	Clyst or sltst, v sdy, occ ls frags.
1165	Ss / occ bldrs
1205	Basal Duchesne River cgl. Ls & qtzt bldrs set in sdy mtx. V hd.
1230	Duchesne River Formation to Uinta Formation
	Vcol clyst / occ ls bldrs
1250	Ss / admixed vcol clyst & siltst
1275	Ss & vcol sltst & clyst
1290	Ss / intercalations of cly & slt. Prom pyr xls noted along / scat bldrs
1345	Vcol sdy clyst & scat bldrs.
1383.5	Vcol sdy clyst & sltst / mar, drab, brn & lt bl-gy slts & sdy slt, frag pred
1393.5	Vcol clys & slts
1400	Ss / admixed vcol clys & slts
1410	Vcol clys & slts / v occ. bldrs.
1425	Pred ss/admixed vcol clys & sdy slts. Bl-gy slt pred.
1440	Red, bl, tan & dirty brn clys & slts & sdy slts.
1455	Ss/admixed vcol clys & slts
1470	Pred vcol clys & slts / some admixed ss. First dk gy cht grains appear at 1,490'
1500	Pred ss/admixed vcol clys & slts. N cuts
1530	Vcol clys & slts & some bl-gy cht frags. First prom. appearance of gy cht mat @ 1,530'. Appearance of a few tar coated ls grs. Spls give a faint cut in CCl_4 between 1,530' & 1,540'. No cuts from 1,540' to 1,585'.
1585	Ss / some admixed cht cgl & vcol clys. Pyr xls noticeable. No cut to 1,615' & a v faint cut between 1,615' & 1,630'. @ 1,630' the first time a cons admixture of tar stained sd grs showed on the ditch
1630	Tan sd / some tar sd. All spls down to 1,700' showing fair cut. Some vcol slt frag
1730	Hd gy cht cgl & sd.
1755	Gy cht & ls bldr cgl set in a sdy mtx. Faint oil cut 1,755' to 1,770'. G cut 1,770' to 1,800
1800	Ss, tar ss & scat bldrs. Faint cuts throughout
1850	Blk tar sd & gy chty pbl cgl. Cored 38' of tar sd & gas burned in the barrel at 1,885'.
1908	Ss & cht pbl cgl. All spls gave g cuts so it is probably tar saturated.
1940	Ss / some admixed vcol clys. Spls give cut throughout.
1968	Cgl set in a ss mtx & some admixed vcol arg mat.
2035	Approx top of K-Mesaverde sds & shs. Ss?
2045	Gy K shs, lig shs & some thn strs of coal / shiny lstr. Ireg bedded.
2093	Mesaverde oil sds, lt. br, med gr, fr sft, massive. Give excellent cut. No odor.
2218 / 2222	T.D.

Legend:
- Shale
- Ss
- Cngl
- Cly or Clst
- Slt or sltst
- Oil, asphalt
- coal seams intermixed